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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

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Application Number 09/677,374
Filing Date 15 September 2000
First Named Inventor KUZYK, Michael A.
Group Art Unit 1642
Examiner Name
Attorney Docket Number 1115-005/dhh

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JA	C A	ANACKER, ROBERT L. et al.; Characterization of Monoclonal Antibodies Protecting Mice against Rickettsia*; The Jnl of Infectious Diseases, Vol. 151, No. 6, June 1985, pp 1052-1060, Hamilton, Montana	<input type="checkbox"/>
	C B	ANDERSON, BURT, Molecular Rickettsiology, A Short History, Rickettsial Infection and Immunity, edited by Anderson et al., [1997], pages 1-13, Plenum Press, New York	<input type="checkbox"/>
	C C	ANDERSON, BURT E. et al.; A Protective Protein Antigen of Rickettsia rickettsii Has Tandemly*, Near-Identical Seq.; Infection and Immunity, Sept. 1990, p. 2760-2769, Vol. 58, No. 9; Hamilton, Montana	<input type="checkbox"/>
	C D	ANDERSON BURT E. et al.; Sequence Analysis of the 17-Kilodalton-Antigen Gene from Rickettsia rickettsii; Journal of Bacteriology, June 1987, p. 2385-2390, Vol. 169, No. 6, Atlanta, Georgia	<input type="checkbox"/>
	C E	AZAD, ABDU F. et al.; Flea-borne Rickettsioses: Ecologic Considerations; Emerging Infectious Diseases, Vol. 3, No. 3, July-September 1997, Maryland, USA	<input type="checkbox"/>
	C F	BIXLER, Jr., GARVIN S. et al.; The Cellular Basis of the Immune Response to Conjugate Vaccines, Contrib. Microbio. Immunol. Basel, Karger, 1989, Vol. 10, pp. 18-47; Rochester, NY, USA	<input type="checkbox"/>
	C G	BRAVO S. et al., Coho Salmon Syndrome in Chile; FHS/AFS Newsletter [1989] 17(2):3, Puerto Montt, Chile	<input type="checkbox"/>
	C H	BROCKLEBANK, JOHN R. et al.; Rickettsial Septicemia in Farmed Atlantic and Chinook Salmon in British Columbia: Clinical Presentation*; Can Vet J. Vol. 34, Dec. 1993 pp. 745-748	<input type="checkbox"/>
	CI	CARL, M. et al.; Characterization of the Gene Encoding the Protective*: Presence of a Truncated Identical Homolog*; Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 8237-8241, Nov. 1990 Micorb., Bethesda, Maryland	<input type="checkbox"/>
	CJ	CHING, WEI-MEI et al.; Mapping of Monoclonal Antibody Binding Sites on CNBr Fragments of the S-Layer Protein Antigens of Rickettsia*; Molecular Immunology, Vol. 29, No. 1, pp. 95-105, 1992, U.K.	<input type="checkbox"/>
	C K	CHING, W.M. et al., Identification and Characterization of Epitopes on the 120-Kilodalton Surface Protein*; Infection and Immunity, 1996, Vol. 64, No. 4, pp 1413-1419, Bethesda, Maryland	<input type="checkbox"/>

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Sheet 3 of 6

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MS	C L	CORPET, FLORENCE; Multiple Sequence Alignment with Hierarchical Clustering; Volume 16, Number 22, 1988, pp. 10881-10890, Tolosan, France	
	C M	CVITANICH, J.D. et al.; The Isolation of a Rickettsia-like Organism Causing Disease and Mortality in Chilean Salmonids and its Confirmation*; Jml of Fish Diseases 1991, 14, 121-145; Springfield, Oregon	
	C N	DAVIS, MICHAEL J. et al.; Rickettsial Relative Associated with Papaya Bunchy Top Disease; Current Microbiology An International Journal, Vol. 36 (1998), pp. 80-84, New York	
	C O	DEMOTZ, STEPHANE et al.; Delineation of Several DR-Restricted Tetanus Toxin T Cell Epitopes, The Journal of Immunology, Vol. 142, 394-402, No. 2, January 15, 1989, USA	
	C P	DRANCOURT, M. et al.; Taxonomic Position of the Rickettsiae: Current Knowledge; FEMS Microbiology Reviews 13 (1994) 13-24, Marseille, France	
	C Q	FRYER, J.L. et al.; Isolation of a Rickettsiales-Like Organism from Diseased Coho Salmon (Oncorhynchus kisutch) in Chile*; Fish Pathology 25(2), 107-114, 1990. 6, Corvallis, Oregon	
	C R	FRYER, J.L. et al.; Piscirickettsia Salmonis Gen. Nov., Sp. Nov., the Causative Agent*; International Journal of Systematic Bacteriology, Jan. 1992, p. 120 -126, Vol. 42, No. 1, Newport, Oregon	
	C S	FRYER, JOHN L. et al.; The Rickettsia: an Emerging Group of Pathogens in Fish; Emerging Infectious Diseases, Vol. 3, No. 2, (1997) pp. 137-144, Corvallis, Oregon	
	C T	HAHN, MYONG-JOON et al.; Expression and Purification of the Crystalline Surface Layer Protein of Rickettsia Typhi; Microbol. Immunol., 40(3) 233-236, 1996, Chunchon, South Korea	
	C U	HATHAWAY, L.J. et al.; Induction of Systemic Immune Responses to Measles Virus Synthetic Peptides Administered Intranasally; Elsevier Science Ltd., (1995) Great Britain	
	C V	HICKMAN, CAROLE J. et al.; Molecular Cloning and Sequence Analysis of a Rickettsia Tsutsugamushi 22 kDa Antigen Containing B- and T-cell Epitopes; Microbial Pathogenesis 1991: 11: 19-31; Maryland, USA	

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Sheet 4 of 6

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First Named Inventor KUZYK, Michael A.
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W	C W	HIGGINS, JAMES A. et al.; Reverse Transcriptase PCR Amplification of Rickettsia typhi from Infected Mammalian Cells*; Jnl of Clinical Microb., June 1998, p. 1793-1794, Vol. 36, No. 6, Baltimore, Maryland	
	C X	KJERRULF, MARTIN et al.; Tandem Repeats of T Helper Epitopes Enhance Immunogenicity of Fusion Proteins by Promoting Processing*; Molecular Immun., Vo. 34, No. 89, pp. 599-608, 1997, UK	
	C Y	LANNAN, C.N. et. al.; Piscirickettsia Salmonis, a Major Pathogen of Salmonid Fish in Chile*; Fisheries Research 17 (1993) 115-121, Corvallis, Oregon	
	C Z	LI, HAN et al.; rOmpA is a Critical Protein for the Adhesion of Rickettsia rickettsii to Host Cells; Microbial Pathogenesis 1998; 24: 289- 298; Academic Press Limited, Galveston, Texas	
	D A	MALLAVIA, L.P., Genetics of Rickettsiae; European Journal of Epidemiology, May 1991, p. 213-221, Vol. 7, No. 3; Pullman, Washington	
	D B	MCDONALD, GREGORY A. et al.; Cloned Gene of Rickettsia rickettsii Surface Antigen: Candidate Vaccine for Rocky Mountain*; Science, Vol. 235, 2 January 1987, pp. 83-85, Hamilton, Montana	
	D C	MESSICK, JOANNE B. et al.; Inhibition of Binding, Entry, or Intracellular Proliferation of*, Immunoglobulin G, or Fab*; Infect. and Imm., Aug. 1994, p. 3156-3161, Vol. 62, No. 8; Columbia, Ohio	
	D E	MUSOKE, A.J. et al.; Prospects for Subunit Vaccines Against Tick-Borne Diseases; Br. vet. J. (1996), 152, 621-639, Pullman, USA	
	D F /	O'HERN, PATRICIA A.; Colinear Synthesis of an Antigen-Specific B-Cell Epitope with a 'Promiscuous' Tetanus Toxin T-cell Epitope: a Synthetic Peptide*; Vaccine 1997 Volume 15, Number 16, UK	
	D G	PANG, HUILING et al.; Analysis of the Peptidoglycan of Rickettsia prowazekii; Journal of Bacteriology, Feb. 1994, p. 923-926, Vol. 176, No. 3, Mobile, Alabama	
	D H	PANINA-BORDIGNON, PAOLA, Universally immunogenic T cell epitopes: promiscuous binding to human MHC class II and promiscuous recognition by T cells*; Eur. J. Immunol. [1989] 19: 2237-2242; Switzerland	

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Sheet 5 of 6

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Application Number 09/677.374
Filing Date 15 September 2000
First Named Inventor KUZYK, Michael A.
Group Art Unit 1642
Examiner Name
Attorney Docket Number 1115-002/ddh

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MI	D I	PARTIDOS, CHARALAMBOS et al.; The Influence of Orientation and Number of Copies of T and B Cell Epitopes on the Specificity and Affinity*; Eur. J. Immunol., 1992, 22: 2675-2680; London, UK	
	D J	PARTIDOS, CHARALAMBOS D. et al.; Prediction and Identification of a T Cell Epitope in the Fusion Protein of Measles Virus Immunodominant in Mice*; Jml of General Vir. (1990), 71, pp. 2099-2105, UK	
	D K	PILLAI, SUBRAMONIA et al.; Immunogenicity of Genetically Engineered Glutathione S-Transferase Fusion Proteins* Toxin; Infect. and Imm., Apr. 1995, p. 1535-1540, Vol. 63, No. 4, West Henrietta, NY	
	D L	RACHEK, LYUDMILA I. et al.; Transformation of Rickettsia prowazekii to Rifampin Resistance; Journal of Bacteriology, Apr. 1998, p. 2118-2124, Vol. 180, No. 8; Mobile, Alabama	
	D M	RIKIHISA, YASUKO; The Tribe Ehrlichiae and Ehrlichial Diseases; Clinical Microbiology Review, July 1991, p. 286-308, Vol. 4, No. 3, Columbus, Ohio	
	D N	RODGER, H.D. et al.; Observation of a Rickettsia-like Organism in Atlantic Salmon, Salmo salar L., in Ireland; Journal of Fish Diseases 1993, 16, pp. 361-369, Stirling, Scotland	
	D O	SEONG, S.Y. et al.; Induction of Neutralizing Antibody in Mice by Immunization with Recombinant 56 kDa Protein of Orienta Tsutsugamushi; Vaccine, Vol. 15, No. 16, pp.1741-1747, 1997	
	D P	STENOS, JOHN et al.; Rickettsia Honei sp. nov., The Aetiological Agent of Flinders Island Spotted Fever in Australia; International Journal of Systematic Bacteriology (1998), 48, 1399-1404, Great Britain	
	D Q	TROYER, JILL MICHELLE et al.; Green Fluorescent Protein as a Marker in Rickettsia typhi Transformation; Infection and Immunity, July 1999, p. 3308-3311, Vol. 67, No. 7, Baltimore, Maryland	
	D R	SUMNER, JOHN W. et al.; Protection of Guinea-pigs from Experimental Rocky Mountain Spotted Fever by Immunization with Baculovirus-expressed Rickettsia Rickettsii rOmpA Protein; Vaccine, Vol. 13, No. 1, pp. 29-35, 1995, Atlanta, Georgia	
	D S	VALMORI, DANILA et al.; Use of Human Universally Antigenic Tetanus Toxin T Cell Epitopes as Carriers for Human Vaccination; The Journal of Immunology, Vol. 149, 717-721, NO. 2 July 15, 1992, USA	

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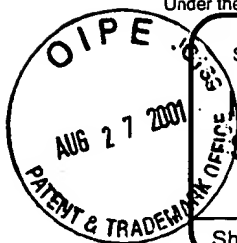
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ms	C A	ALTSCHUL, STEPHEN F. et al.; Basic Local Alignment Search Tool; Journal of Molecular Biology (1990) 215, 403-410, Academic Press Limited, Bethesda, Maryland	<input type="checkbox"/>
	C B	ALTSCHUL, STEPHEN F.; Gapped Blast and PSI-Blast: a New Generation of Protein Database Search Programs; Nucleic Acids Research, 1997, Vol. 25, No. 17, pp. 3389-3402, USA	<input type="checkbox"/>
	C C	KUZYK, MICHAEL A. et al.; Antigenic Characterization of the Salmonid Pathogen Piscirickettsia salmonis; Infection and Immunity, Dec. 1996, p. 5205-5210, Vol. 64, No. 12, British Columbia, Canada	<input type="checkbox"/>
	C D	LEWIS, JANINA P. et al.; IS195, an Insertion Sequence-Like Element Associated with Protease Genes in Prophylomonas*; Infection and Immunity, July 1998, p. 3035-3042, Vol. 66, No. 7, Richmond, Virginia	<input type="checkbox"/>
	C E	MARSHALL, SERGIO et al.; Minimally Invasive Detection of Pisirickettsia salmonis in Cultivated*; Applied and Environmental Microbiology, Aug. 1998, p. 3066-3069, Vol. 64, No. 8, San Francisco, CA	<input type="checkbox"/>
	C F	NEEDLEMAN, SAUL B. et al.; A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins; Journal of Molecular Biology (1970) 48, 443-453, Chicago, Illinois	<input type="checkbox"/>
	C G	HUANG, XIAOQIU et al.; Parallelization of a Local Similarity Algorithm; Cabios, Vol. 8, No. 2, 1992, pp. 155-165, University Park, PA	<input type="checkbox"/>
	C H	JAMESON, B.A. et al.; The Antigenic Index: a Novel Algorithm for Predicting Antigen Determinants; Cabios, Vol. No. 4. No. 1, 1988, pp. 181-186, Pasadena, CA	<input type="checkbox"/>
	CI	PEARSON, WILLIAM R. et al.; Improved Tools for Biological Sequence Comparison, Proc. Natl. Acad. Sci., Vol. 85, pp. 2444-2448, April 1988, Bethesda, Maryland	<input type="checkbox"/>
	CJ	OLIVIER, G. et al.; Immunity to Aeromonas Salmonicida in Coho Salmon (Oncorhynchus Kisutch) Induced by Modified Freund's Complete Adjuvant: Its Non-Specific Nature and the Probable Role of Macrophages in the Phenomenon; Developmental and Comparative Immunology, Vol. 9, pp. 419-432, 1985, USA	<input type="checkbox"/>
	C K	PEARSON, WILLIAM R.; Using the FASTA Program to Search Protein and DNA Sequence Databases; Methods in Molecular Biology, Vol. 24, Computer Analysis of Sequence Data, Part I, pp. 307-331, Totowa, NJ	<input type="checkbox"/>

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Sheet 3 of 4

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Application Number 09/677.374
Filing Date 15 September 2000
First Named Inventor KUZYK, Michael A.
Group Art Unit 1642
Examiner Name
Attorney Docket Number 1115-005/ddh

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MS	C L	PEARSON, WILLIAM R.; Empirical Statistical Estimates for Sequence Similarity Searches; Journal of Molecular Biology (1998) 276, 71-84, Academic Press Limited, Charlottesville, VA	
	C M	TABOR, STANLEY et al.; A Bacteriophage T7 RNA Polymerase/Promoter System for Controlled Exclusive Expression of Specific Genes; Proc. Natl. Acad. Sci., Vol. 82, pp. 1074-1078, Feb. 1985, USA	
	C N	TAMURA, AKIRA et al.; Purification of Rickettsia Tsutsugamushi by Percoll Density Gradient Centrifugation; Microbiol. Immunol., Vol. 26 (4), 321-328, 1982, Niigata, Niigata	
	C O	WEISS, E. et al.; Separation of Viable Rickettsia Typhi from Yolk Sac and L Cell Host Components by Renografin*; Applied Microbiology, Sept. 1975, p. 456-463, Vol. 30, No. 3, Bethesda, Maryland	
	C P	SMITH, TEMPLE F. et al.; Comparison of Biosequences; Advances in Applied Mathematics 2, 482-489 (1981), USA	
	C Q	HO, PAUL C. et al.; Identification of Two Promiscuous T Cell Epitopes from Tetanus Toxin*; Eur. J. Immunol. 1990, 20: 477-483, Sydney, Australia	
	C R	FRYAUFF, DAVID J. et al.; Lymphocyte Response to Tetanus Toxin T-cell Epitopes; Effects of Tetanus Vaccination and Concurrent Malaria Prophylaxis; Vaccine 17 (1999) pp. 59-63	
	C S	REECE, Jeanette C. et al.; Mapping the Major Human T Helper Epitopes of Tetanus Toxin, The Emerging Picture; The Journal of Immunology, Vol 151, 6175-6184, No. 11, December 1, 1993, Victoria, Australia	
	C T	PARTULA, SYLVIE, Surface Markers of Fish T-Cells; Fish & Shellfish Immunology (1999) 9, 241-257; 1999 Academic Press, Uppsala, Sweden	
	C U	STET, RENE J.M. et al.; Inference of Structure and Function of Fish Major Histocompatibility Complex (MHC) Molecules from Expressed Genes; Fish and Shellfish Immunology (1996) 6, 305-318, 1996 Academic Press Limited, The Netherlands	
	C V	NAKANISHI, T. et al.; Specific Cell-Mediated Immunity in Fish; Veterinary Immunology and Immunopathology 72 (1999) 101-109, Japan	

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JS	C W	KOPPANG, E.O. et al; Expression of Mhc Class I mRNA in Tissues From Vaccinated and Non-Vaccinated*; Fish & Shellfish Immunology (1998) 8, 577-587; Article NO. Fi980164, Norway	<input type="checkbox"/>
	C X	GRIMHOLT, U.et al.; The Major Histocompatibility Complex in Fish; Rev. Sci. Tech. Off. Int. Epiz., 1998, 17(1), 121-127, Norway	<input type="checkbox"/>
	C Y	ANDERSON, BURT E. et al.; Comparative Sequence Analysis of a Genus-Common Rickettsial Antigen Gene; Journal of Bacteriology, Sept. 1989, p. 5199-5201; Atlanta, Georgia	<input type="checkbox"/>
	C Z	ANDERSON, B.E. et al.; Expression of the Gene Encoding the 17-Kilodalton Antigen from Rickettsia rickettsii: Transcription*; Jnl of Bacteriology, Oct. 1988, p. 4493-4500, Vol. 170, No. 10, Atlanta, Georgia	<input type="checkbox"/>
	D A	SECOMBES, CHRIS; Non-Specific Defence Mechanisms of Fish; Bull Eur. Ass. Fish Pathol. 19(6), 296, 1999; Aberdeen, UK	<input type="checkbox"/>
	D B	VALLEJO, ABBE N. et al.; Antigen Processing and Presentation in Teleost Immune Responses; Annual Rev. of Fish Diseases, pp. 73-89, 1992; Jackson, Mississippi	<input type="checkbox"/>
	D C	WINTON, J.R.; Molecular Approaches to Fish Vaccines; J. Appl. Ichthyol. 14 (1998), 153-158; Berlin, Germany	<input type="checkbox"/>
	D E	CHEN, MARTIN F. et al.; IFAT Positive Bacteria in Rectal Swabs from Asymptomatic Channel Catfish Suggest ESC Carrier State; FHS/AFS Newsletter, p. 3, Vol. 17(2) Davis, CA	<input type="checkbox"/>
	D F	VAN BINNENDIJK, ROBERT S. et al; Human HLA Class I - HLA Class II-Restricted Cloned Cytotoxic T Lymphocytes*, Jrl of Virology, Apr. 1993, p. 2276-2284, Vol.67, No. 4., Bilthoven, The Netherlands	<input type="checkbox"/>
	D G	ARKOOSH, MARY R. et al.; Development of Immunological Memory in Rainbow Trout (Oncorhynchus mykiss). I. An Immunochemical and Cellular Analysis of the B Cell Response; Developmental and Comparative Immunology, Vol. 15, pp. 279-293, 1991; Cornvallis, Oregon	<input type="checkbox"/>
	D H	PARTIDOS, CHARALAMBOS et al.; The Effect of Orientation of Epitopes on the Immunogenicity of Chimeric Synthetic Peptides*; Molecular Immunology, Vol. 29, No. 5, pp. 651-658, [1992]; Great Britain	<input type="checkbox"/>

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